

WHAT IS CLAIMED IS

5

1. A plasma display apparatus, comprising:
a plurality of electrodes for electric
discharge; and

a drive circuit which drives said
10 plurality of electrodes, wherein said drive circuit
includes:

first and second outputting circuits
provided on a board;

a connector provided on the board and
15 coupled to said plurality of electrodes; and

a conductive plate which is provided on
the board, and provides electrical couplings between
said first and second outputting circuits and said
connector, wherein said conductive plate includes a
20 first area connected to the first outputting circuit
and a second area connected to the second outputting
circuit, said first area and said second area being
substantially line-symmetric.

25

2. The plasma display apparatus as claimed
in claim 1, wherein said first and second outputting
30 circuits are arranged substantially line-symmetric
with each other in respect of a center line of the
line-symmetry of said conductive plate.

35

3. The plasma display apparatus as claimed

in claim 1, wherein said connector coupled to said plurality of electrodes is arranged substantially line-symmetric in respect of a center line of the line-symmetry of said conductive plate.

5

4. The plasma display apparatus as claimed
10 in claim 1, further comprising an eddy current layer that overlays said conductive plate for generating an eddy current responsive to an electric current running through said conductive plate.

15

5. The plasma display apparatus as claimed
in claim 4, wherein said eddy current layer is
20 situated around a perimeter of said conductive plate that is at a distance from a center line of the line-symmetry of said conductive plate.

25

6. The plasma display apparatus as claimed
in claim 1, wherein said conductive plate includes a slit formed therethrough.

30

7. The plasma display apparatus as claimed
35 in claim 6, wherein said slit is situated near a center line of the line-symmetry of said conductive plate so as to make an electric current flowing in

said conductive plate bypass around said slit.

5

8. The plasma display apparatus as claimed in claim 1, wherein said first outputting circuit and said second outputting circuit include a first outputting terminal and a second outputting terminal, respectively, which are coupled to said first area and said second area, respectively, said first outputting terminal and said second outputting terminal being provided near a center line of the line-symmetry of said conductive plate.

15

9. The plasma display apparatus as claimed in claim 1, wherein said first outputting circuit and said second outputting circuit include a first ground terminal and a second ground terminal, respectively, said first ground terminal and said second ground terminal being arranged substantially line-symmetric with each other in respect of a center line of the line-symmetry of said conductive plate.

30

10. The plasma display apparatus as claimed in claim 9, wherein said drive circuit includes a ground screw that is provided on said board and connected to said first ground terminal and said second ground terminal, said ground screw being situated near the center line of the line-

35

symmetry of said conductive plate.

5

11. The plasma display apparatus as claimed in claim 9, wherein said drive circuit includes a first ground screw and a second ground screw that are provided on said board and connected to said first ground terminal and said second ground terminal, said first ground screw and said second ground screw being arranged substantially line-symmetric with each other in respect of the center line of the line-symmetry of said conductive plate.

15

12. The plasma display apparatus as claimed in claim 1, wherein said first and second outputting circuits each include a power save circuit for collecting and reusing of an electric power supplied to said plurality of electrodes, wherein said power save circuit includes:

25 an electric power collecting capacitor for accumulating a collected electric power; and

an electric power collecting coil connecting between said electric power collecting capacitor and said conductive plate,

30 wherein said electric power collecting capacitor and said electric power collecting coil of said first outputting circuit are arranged substantially line-symmetric with said electric power collecting capacitor and said electric power collecting coil of said second outputting circuit, respectively, in respect of a center line of the line-symmetry of said conductive plate.

35

5 13. The plasma display apparatus as
claimed in claim 1, wherein said plurality of
electrodes include:

 a plurality of first electrodes; and
 a plurality of second electrodes arranged
10 substantially parallel to said plurality of first
electrodes for generating discharge at a gap formed
with said plurality of first electrodes,
 wherein said drive circuit applies a
discharge voltage to either one of said plurality of
15 first electrodes and said plurality of second
electrodes.

20
 14. The plasma display apparatus as
claimed in claim 13, wherein said first area and said
second area of said conductive plate are formed as a
single integral metal plate on a first surface of
25 said board.

30 15. The plasma display apparatus as
claimed in claim 1, wherein said plurality of
electrodes include:
 a plurality of first electrodes; and
 a plurality of second electrodes arranged
35 substantially parallel to said plurality of first
electrodes for generating discharge at a gap formed
with said plurality of first electrodes,

wherein said drive circuit applies a discharge voltage to either one of said plurality of first electrodes and said plurality of second electrodes, and wherein said first outputting
5 circuit of said drive circuit applies the discharge voltage to odd-number electrodes of said either one of said plurality of first electrodes and said plurality of second electrodes, and said second outputting circuit of said drive circuit applies the
10 discharge voltage to even-number electrodes of said either one of said plurality of first electrodes and said plurality of second electrodes.

15

16. The plasma display apparatus as claimed in claim 15, wherein said first area of said conductive plate is formed on a first surface of
20 said board, and said second area of said conductive plate is formed on a second surface of said board.

25

17. A plasma display apparatus,
comprising:
a plurality of first electrodes;
a plurality of second electrodes arranged
30 substantially parallel to said plurality of first electrodes;
a first drive circuit which applies a discharge voltage to said plurality of first electrodes; and
35 a second drive circuit which applies a discharge voltage to said plurality of second electrodes, wherein sustain discharge is generated

between the first electrodes and the second electrodes,

wherein each of said first drive circuit and said second drive circuit includes:

5 an outputting circuit provided on a board;
 a connector provided on the board and coupled to the first electrodes or the second electrodes; and

10 a conductive plate which is provided on the board, and provides an electrical coupling between said outputting circuit and said connector,
 wherein a difference between a maximum and a minimum of a voltage change between the first electrodes and the second electrodes is equal to or
15 less than 5 volts when sustain discharge currents run between the first electrodes and the second electrodes.

20